EXHIBIT C
Engineering Specifications for an Overhead Transmission Line
Segment 1 of 4

PRINCIPAL CIRCUIT

1. Name of Petitioner: ITC Midwest, LLC

2. Name or Circuit Number of Line: Prairie Creek CKT 4750

3. Length of Segment: 1.17 (2.34 ckt mi.) miles
4. Segment is located in the following sections, townships, and ranges: Section 36, T83N, R7W and Section 31, T83N, R6W

5. Segment will be rebuilt in 2017.
6. Segment will be maintained in accordance with the Iowa Electrical Safety Code and the 2012 Edition of the National Electrical Safety Code.

7. Maximum *Capable of Operating* Voltage: 72.5 kVAC Nominal Operating Voltage: 69 kVAC

8. Construction Grade: B Typical Span: 275 ft. Maximum Span: 300 ft.

Vertical Overhead Clearance Requirement* for the Phase Conductors

	Surface	*Basic Clearance*	+	*Voltage Adder*	+	*Additional Adders*	=	*Clearance*
9.	*Open Ground*	18.5 ft.	+	0.7 ft.	+	ft.	=	19.2 ft.
10.	*Roads*	18.5 ft.	+	0.7 ft.	+	ft.	=	19.2 ft.
11.	*(no RR crossings)*	ft.	+	ft.	+	ft.	=	ft.
12.	*(no water surfaces)*	ft.	+	ft.	+	ft.	=	ft.

* The Iowa Electrical Safety Code and the applicable edition of the NESC should both be referenced to determine the conditions at which the above clearances apply.

Phase Conductors:

13. Code Word: T2-Penguin Size: 423.2 kcmil Stranding: 2-6/1 Material: ACSR

Shield Wire(s):

14. Size: AFL Alumacore DNO-6071 0.555" DIA Stranding: 1/15 Material: Aluminum pipe/ Aluminum clad steel
15. Frequency of Shield Wire Grounding (if applicable): At each structure

Typical Insulators

			Suspension Type	
16.		*Post Type*	*Tan. / Ang. Single Piece Unit*	*Strain Single Piece Unit*
17.	*Manufacturer*	Hubbell Power Systems	Hubbell Power Systems	Hubbell Power Systems
18.	*Catalog number*	P250034S1020 or Equivalent	P250034S9020 or Equivalent	S025030H2010 or Equivalent
19.	*Dry Flashover*	355 kV	355 kV	320 kV
20.	*Wet Flashover*	320 kV	320 kV	305 kV
21.	*Impulse Flashover, +*	545 kV	545 kV	535 kV

22.	*Impulse Flashover, –*	655 kV	655 kV	515 kV

Typical Structures:

23. Structures Typically are: Wood Poles
24. Typical Height After Installation: 56.5 - 65.5 ft.

Typical Wood Pole:

25. Species: Douglas Fir Treatment: Penta Class: 1-H2 Length: 65-75 ft.

Steel Structures:

26. Steel Pole or Tower Material: N/A

27. H-Frame Structure Bracing Type: N/A Spacing Between H-Frame Poles: N/A ft.

28. Support Arm Type: N/A Material: N/A Dimensions: N/A

29. Guys are: Insulated Guy Markers are: Yellow

SECOND TRANSMISSION CIRCUIT (if applicable)

30. Name of Owner: ITC Midwest, LLC
31. Name or Circuit Number of Line: Prairie Creek CKT 3150
32. If Franchised Separately, Docket Number of Order Granting Franchise: This Docket (Northern Circuit)

33. Maximum *Capable of Operating* Voltage: 72.5 kVAC Nominal Operating Voltage: 34.5 kVAC

Vertical Overhead Clearance Requirement* for the Phase Conductors

	Surface	*Basic Clearance*	+	*Voltage Adder*	+	*Additional Adders*	=	*Clearance*
34.	*Open Ground*	18.5 ft.	+	0.7 ft.	+	ft.	=	19.2 ft.
35.	*Roads*	18.5 ft.	+	0.7 ft.	+	ft.	=	19.2 ft.
36.	*(no RR crossings)*	ft.	+	ft.	+	ft.	=	ft.
37.	*(no water surfaces)*	ft.	+	ft.	+	ft.	=	ft.

* The Iowa Electrical Safety Code and the applicable edition of the NESC should both be referenced to determine the conditions at which the above clearances apply.

Phase Conductors:

38. Code Word: Partridge Size: 266.8 kcmil Stranding: 26/7 Material: ACSR

Typical Insulators

39.		*Post Type*	*Suspension Type*	
			Tan. / Ang. Single Piece Unit	*Strain Single Piece Unit*
40.	*Manufacturer*	Hubbell Power Systems	Hubbell Power Systems	Hubbell Power Systems
41.	*Catalog number*	P250034S1020 or Equivalent	P250034S9020 or Equivalent	S025030H2010 or Equivalent
42.	*Dry Flashover*	355 kV	355 kV	320 kV
43.	*Wet Flashover*	320 kV	320 kV	305 kV
44.	*Impulse Flashover, +*	545 kV	545 kV	535 kV
45.	*Impulse Flashover, –*	655 kV	655 kV	515 kV

46. Support Arm Type: N/A Material: N/A Dimensions: N/A

DISTRIBUTION UNDERBUILD (if applicable)

47. Name of Owner: Interstate Power and Light Company

48. Nominal Voltage: 12.5 kV

49. Number of Distribution Phase Conductors: 3

50. Neutral is Multi-grounded Multi-Grounding Frequency: At each structure, except deadends

Vertical Overhead Clearance Requirement* for the Phase Conductors

	Surface	*Basic Clearance*	+	*Additional Adders*	=	*Clearance*
51.	*Open Ground*	18.5 ft.	+	ft.	=	18.5 ft.
52.	*Roads*	18.5 ft.	+	ft.	=	18.5 ft.
53.	*(no RR crossings)*	ft.	+	ft.	=	ft.
54.	*(no water surfaces)*	ft.	+	ft.	=	ft.

* The Iowa Electrical Safety Code and the applicable edition of the NESC should both be referenced to determine the conditions at which the above clearances apply.

Vertical Overhead Clearance Requirement* for the Neutral Conductor (if applicable)

	Surface	*Basic Clearance*	+	*Additional Adders*	=	*Clearance*
55.	*Open Ground*	15.5 ft.	+	ft.	=	15.5 ft.
56.	*Roads*	15.5 ft.	+	ft.	=	15.5 ft.
57.	*(no RR crossings)*	ft.	+	ft.	=	ft.
58.	*(no water surfaces)*	ft.	+	ft.	=	ft.

* The Iowa Electrical Safety Code and the applicable edition of the NESC should both be referenced to determine the conditions at which the above clearances apply.

59. Support Arm Type: Crossarm Material: Wood Dimensions: 12' x 4.75" x 3.75"

TYPICAL STRUCTURE DRAWING

60. A drawing of a typical tangent structure, as described in the instructions, has been attached.

ADDITIONAL DRAWINGS REQUIRED FOR NEW CONSTRUCTION

61. Angle structures will be used in this segment of line. A drawing of a typical angle structure, as described in the instructions, has been attached.

62. Dead-end structures will be used in this segment of line. A drawing of a typical dead-end structure, as described in the instructions, has been attached.

63. There are no grain bins along this segment of line. Drawings showing the clearance envelope for each grain bin in relation to the proposed line are not required.

EXHIBIT C
Engineering Specifications for an Overhead Transmission Line
Segment 2 of 4

PRINCIPAL CIRCUIT

1. Name of Petitioner: ITC Midwest, LLC

2. Name or Circuit Number of Line: Prairie Creek CKT 4750

3. Length of Segment: 0.98 miles
4. Segment is located in the following sections, townships, and ranges: Sections 30 and 31 in T83N, R6W

5. Segment will be rebuilt in 2017.
6. Segment will be maintained in accordance with the Iowa Electrical Safety Code and the 2012 Edition of the National Electrical Safety Code.

7. Maximum *Capable of Operating* Voltage: 72.5 kVAC Nominal Operating Voltage: 69 kVAC

8. Construction Grade: B Typical Span: 275 ft. Maximum Span: 300 ft.

Vertical Overhead Clearance Requirement* for the Phase Conductors

	Surface	*Basic Clearance*	+	*Voltage Adder*	+	*Additional Adders*	=	*Clearance*
9.	*Open Ground*	18.5 ft.	+	0.7 ft.	+	ft.	=	19.2 ft.
10.	*Roads*	18.5 ft.	+	0.7 ft.	+	ft.	=	19.2 ft.
11.	*(no RR crossings)*	ft.	+	ft.	+	ft.	=	ft.
12.	*(no water surfaces)*	ft.	+	ft.	+	ft.	=	ft.

* The Iowa Electrical Safety Code and the applicable edition of the NESC should both be referenced to determine the conditions at which the above clearances apply.

Phase Conductors:

13. Code Word: T2-Penguin Size: 423.2 kcmil Stranding: 2-6/1 Material: ACSR

Shield Wire(s):

14. Size: AFL Alumacore DNO-6071 0.555" DIA Stranding: 1/15 Material: Aluminum pipe/ Aluminum clad steel
15. Frequency of Shield Wire Grounding (if applicable): At each structure

Typical Insulators

			Suspension Type	
16.		*Post Type*	*Tan. / Ang. Single Piece Unit*	*Strain Single Piece Unit*
17.	*Manufacturer*	Hubbell Power Systems	Hubbell Power Systems	Hubbell Power Systems
18.	*Catalog number*	80S0690600 or Equivalent	80S0690000 or Equivalent	S025030H2010 or Equivalent
19.	*Dry Flashover*	230 kV	230 kV	320 kV
20.	*Wet Flashover*	180 kV	180 kV	305 kV
21.	*Impulse Flashover, +*	360 kV	360 kV	535 kV

22.	*Impulse Flashover, –*	415 kV	415 kV	515 kV

Typical Structures:

23. Structures Typically are: Wood Poles
24. Typical Height After Installation: 56.5 - 65.5 ft.

Typical Wood Pole:

25. Species: Douglas Fir Treatment: Penta Class: 1-H2 Length: 65-75 ft.

Steel Structures:

26. Steel Pole or Tower Material: N/A

27. H-Frame Structure Bracing Type: N/A Spacing Between H-Frame Poles: N/A ft.

28. Support Arm Type: N/A Material: N/A Dimensions: N/A

29. Guys are: Insulated Guy Markers are: Yellow

SECOND TRANSMISSION CIRCUIT (if applicable)

30. Name of Owner: N/A
31. Name or Circuit Number of Line: _____
32. If Franchised Separately, Docket Number of Order Granting Franchise: _____

33. Maximum *Capable of Operating* Voltage: _____ Nominal Operating Voltage: _____

Vertical Overhead Clearance Requirement* for the Phase Conductors

	Surface	*Basic Clearance*	+	*Voltage Adder*	+	*Additional Adders*	=	*Clearance*
34.	*Open Ground*	ft.	+	ft.	+	ft.	=	ft.
35.	*Roads*	ft.	+	ft.	+	ft.	=	ft.
36.	*Railroads*	ft.	+	ft.	+	ft.	=	ft.
37.	*Water*	ft.	+	ft.	+	ft.	=	ft.

* The Iowa Electrical Safety Code and the applicable edition of the NESC should both be referenced to determine the conditions at which the above clearances apply.

Phase Conductors:

38. Code Word: _____ Size: _____ Stranding: _____ Material: _____

Typical Insulators

39.			*Suspension Type*	
		Post Type	*Tan. / Ang. (select)*	*Strain (select)*
40.	*Manufacturer*			
41.	*Catalog number*			
42.	*Dry Flashover*	kV	kV	kV
43.	*Wet Flashover*	kV	kV	kV
44.	*Impulse Flashover, +*	kV	kV	kV
45.	*Impulse Flashover, –*	kV	kV	kV

46. Support Arm Type: _____ Material: _____ Dimensions: _____

DISTRIBUTION UNDERBUILD (if applicable)

47. Name of Owner: Interstate Power and Light Company

48. Nominal Voltage: 12.5 kV

49. Number of Distribution Phase Conductors: 3

50. Neutral is Multi-grounded Multi-Grounding Frequency: At each structure, except deadends

Vertical Overhead Clearance Requirement* for the Phase Conductors

	Surface	*Basic Clearance*	+	*Additional Adders*	=	*Clearance*
51.	*Open Ground*	18.5 ft.	+	0.0 ft.	=	18.5 ft.
52.	*Roads*	18.5 ft.	+	0.0 ft.	=	18.5 ft.
53.	*(no RR crossings)*	ft.	+	ft.	=	ft.
54.	*(no water surfaces)*	ft.	+	ft.	=	ft.

* The Iowa Electrical Safety Code and the applicable edition of the NESC should both be referenced to determine the conditions at which the above clearances apply.

Vertical Overhead Clearance Requirement* for the Neutral Conductor (if applicable)

	Surface	*Basic Clearance*	+	*Additional Adders*	=	*Clearance*
55.	*Open Ground*	15.5 ft.	+	0.0 ft.	=	15.5 ft.
56.	*Roads*	15.5 ft.	+	0.0 ft.	=	15.5 ft.
57.	*(no RR crossings)*	ft.	+	ft.	=	ft.
58.	*(no water surfaces)*	ft.	+	ft.	=	ft.

* The Iowa Electrical Safety Code and the applicable edition of the NESC should both be referenced to determine the conditions at which the above clearances apply.

59. Support Arm Type: Crossarm Material: Wood Dimensions: 12' x 4.75" x 3.75"

TYPICAL STRUCTURE DRAWING

60. A drawing of a typical tangent structure, as described in the instructions, has been attached.

ADDITIONAL DRAWINGS REQUIRED FOR NEW CONSTRUCTION

61. Angle structures will be used in this segment of line. A drawing of a typical angle structure, as described in the instructions, has been attached.

62. Dead-end structures will be used in this segment of line. A drawing of a typical dead-end structure, as described in the instructions, has been attached.

63. There are no grain bins along this segment of line. Drawings showing the clearance envelope for each grain bin in relation to the proposed line are not required.

EXHIBIT C
Engineering Specifications for an Overhead Transmission Line
Segment 3 of 4

PRINCIPAL CIRCUIT

1. Name of Petitioner: ITC Midwest, LLC

2. Name or Circuit Number of Line: Prairie Creek CKT 4750

3. Length of Segment: 0.12 miles
4. Segment is located in the following sections, townships, and ranges: Section 31 in T83N, R6W

5. Segment will be rebuilt in 2017.
6. Segment will be maintained in accordance with the Iowa Electrical Safety Code and the 2012 Edition of the National Electrical Safety Code.

7. Maximum *Capable of Operating* Voltage: 72.5 kVAC Nominal Operating Voltage: 69 kVAC

8. Construction Grade: B Typical Span: 275 ft. Maximum Span: 300 ft.

Vertical Overhead Clearance Requirement* for the Phase Conductors

	Surface	*Basic Clearance*	+	*Voltage Adder*	+	*Additional Adders*	=	*Clearance*
9.	*Open Ground*	18.5 ft.	+	0.7 ft.	+	ft.	=	19.2 ft.
10.	*Roads*	18.5 ft.	+	0.7 ft.	+	ft.	=	19.2 ft.
11.	*(no RR crossings)*	ft.	+	ft.	+	ft.	=	ft.
12.	*(no water surfaces)*	ft.	+	ft.	+	ft.	=	ft.

* The Iowa Electrical Safety Code and the applicable edition of the NESC should both be referenced to determine the conditions at which the above clearances apply.

Phase Conductors:

13. Code Word: T2-Penguin Size: 423.2 kcmil Stranding: 2-6/1 Material: ACSR

Shield Wire(s):

14. Size: AFL Alumacore DNO-6071 0.555" DIA Stranding: 1/15 Material: Aluminum pipe/ Aluminum clad steel
15. Frequency of Shield Wire Grounding (if applicable): At each structure

Typical Insulators

			Suspension Type	
16.		*Post Type*	*Tan. / Ang.* *N/A*	*Strain* *Single Piece Unit*
17.	*Manufacturer*	Hubbell Power Systems		Hubbell Power Systems
18.	*Catalog number*	80S0690600 or Equivalent		S025030H2010 or Equivalent
19.	*Dry Flashover*	230 kV	kV	320 kV
20.	*Wet Flashover*	180 kV	kV	305 kV
21.	*Impulse Flashover, +*	360 kV	kV	535 kV
22.	*Impulse Flashover, –*	415 kV	kV	515 kV

Typical Structures:

23. Structures Typically are: Wood Poles
24. Typical Height After Installation: 56.5 - 65.5 ft.

Typical Wood Pole:

25. Species: Douglas Fir Treatment: Penta Class: 1-H2 Length: 65-75 ft.

Steel Structures:

26. Steel Pole or Tower Material: N/A

27. H-Frame Structure Bracing Type: N/A Spacing Between H-Frame Poles: N/A ft.

28. Support Arm Type: N/A Material: N/A Dimensions: N/A

29. Guys are: Insulated Guy Markers are: Yellow

SECOND TRANSMISSION CIRCUIT (if applicable)

30. Name of Owner: N/A
31. Name or Circuit Number of Line: _____
32. If Franchised Separately, Docket Number of Order Granting Franchise: _____

33. Maximum *Capable of Operating* Voltage: _____ Nominal Operating Voltage: _____

Vertical Overhead Clearance Requirement* for the Phase Conductors

	Surface	*Basic Clearance*	+	*Voltage Adder*	+	*Additional Adders*	=	*Clearance*
34.	*Open Ground*	ft.	+	ft.	+	ft.	=	ft.
35.	*Roads*	ft.	+	ft.	+	ft.	=	ft.
36.	*Railroads*	ft.	+	ft.	+	ft.	=	ft.
37.	*Water*	ft.	+	ft.	+	ft.	=	ft.

* The Iowa Electrical Safety Code and the applicable edition of the NESC should both be referenced to determine the conditions at which the above clearances apply.

Phase Conductors:

38. Code Word: _____ Size: _____ Stranding: _____ Material: _____

Typical Insulators

			Suspension Type	
39.		*Post Type*	*Tan. / Ang. (select)*	*Strain (select)*
40.	*Manufacturer*			
41.	*Catalog number*			
42.	*Dry Flashover*	kV	kV	kV
43.	*Wet Flashover*	kV	kV	kV
44.	*Impulse Flashover, +*	kV	kV	kV
45.	*Impulse Flashover, –*	kV	kV	kV

46. Support Arm Type: _____ Material: _____ Dimensions: _____

DISTRIBUTION UNDERBUILD (if applicable)

47. Name of Owner: N/A

48. Nominal Voltage: _____

49. Number of Distribution Phase Conductors: _____
50. Neutral is _____ Multi-Grounding Frequency: _____

Vertical Overhead Clearance Requirement* for the Phase Conductors

	Surface	*Basic Clearance*	+	*Additional Adders*	=	*Clearance*
51.	*Open Ground*	ft.	+	ft.	=	ft.
52.	*Roads*	ft.	+	ft.	=	ft.
53.	*Railroads*	ft.	+	ft.	=	ft.
54.	*Water*	ft.	+	ft.	=	ft.

* The Iowa Electrical Safety Code and the applicable edition of the NESC should both be referenced to determine the conditions at which the above clearances apply.

Vertical Overhead Clearance Requirement* for the Neutral Conductor (if applicable)

	Surface	*Basic Clearance*	+	*Additional Adders*	=	*Clearance*
55.	*Open Ground*	ft.	+	ft.	=	ft.
56.	*Roads*	ft.	+	ft.	=	ft.
57.	*Railroads*	ft.	+	ft.	=	ft.
58.	*Water*	ft.	+	ft.	=	ft.

* The Iowa Electrical Safety Code and the applicable edition of the NESC should both be referenced to determine the conditions at which the above clearances apply.

59. Support Arm Type: _____ Material: _____ Dimensions: _____

TYPICAL STRUCTURE DRAWING

60. A drawing of a typical tangent structure, as described in the instructions, has been attached.

ADDITIONAL DRAWINGS REQUIRED FOR NEW CONSTRUCTION

61. Angle structures will not be used in this segment of line. A drawing of a typical angle structure, as described in the instructions, has not been attached.

62. Dead-end structures will be used in this segment of line. A drawing of a typical dead-end structure, as described in the instructions, has been attached.

63. There are no grain bins along this segment of line. Drawings showing the clearance envelope for each grain bin in relation to the proposed line are not required.

EXHIBIT C
Engineering Specifications for an Overhead Transmission Line
Segment 4 of 4

PRINCIPAL CIRCUIT

1. Name of Petitioner: ITC Midwest, LLC

2. Name or Circuit Number of Line: Prairie Creek CKT 4750

3. Length of Segment: 0.10 miles
4. Segment is located in the following sections, townships, and ranges: Section 31 in T83N, R6W

5. Segment will be rebuilt in 2017.
6. Segment will be maintained in accordance with the Iowa Electrical Safety Code and the 2012 Edition of the National Electrical Safety Code.

7. Maximum *Capable of Operating* Voltage: 72.5 kVAC Nominal Operating Voltage: 69 kVAC

8. Construction Grade: B Typical Span: 300 ft. Maximum Span: 300 ft.

Vertical Overhead Clearance Requirement* for the Phase Conductors

	Surface	*Basic Clearance*	+	*Voltage Adder*	+	*Additional Adders*	=	*Clearance*
9.	*Open Ground*	18.5 ft.	+	0.7 ft.	+	ft.	=	19.2 ft.
10.	*Roads*	18.5 ft.	+	0.7 ft.	+	ft.	=	19.2 ft.
11.	*(no RR crossings)*	ft.	+	ft.	+	ft.	=	ft.
12.	*(no water surfaces)*	ft.	+	ft.	+	ft.	=	ft.

* The Iowa Electrical Safety Code and the applicable edition of the NESC should both be referenced to determine the conditions at which the above clearances apply.

Phase Conductors:

13. Code Word: Grosbeak Size: 636 kcmil Stranding: 26/7 Material: ACSR

Shield Wire(s):

14. Size: 3/8" Stranding: 7 Material: EHS Steel
15. Frequency of Shield Wire Grounding (if applicable): At each structure

Typical Insulators

			Suspension Type	
			Tan. / Ang.	*Strain*
16.		*Post Type*	*N/A*	*N/A*
17.	*Manufacturer*	Hubbell Power Systems		
18.	*Catalog number*	80S0690600 or Equivalent		
19.	*Dry Flashover*	230 kV	kV	kV
20.	*Wet Flashover*	180 kV	kV	kV
21.	*Impulse Flashover, +*	360 kV	kV	kV
22.	*Impulse Flashover, –*	415 kV	kV	kV

Typical Structures:

23. Structures Typically are: Laminated Wood Poles
24. Typical Height After Installation: 70-83.5 ft.

Typical Wood Pole:

25. Species: Laminated Wood Treatment: Penta Class: H4-H6 Length: 80-95 ft.

Steel Structures:

26. Steel Pole or Tower Material: N/A

27. H-Frame Structure Bracing Type: N/A Spacing Between H-Frame Poles: N/A ft.

28. Support Arm Type: N/A Material: N/A Dimensions: N/A

29. Guys are: Insulated Guy Markers are: Yellow

SECOND TRANSMISSION CIRCUIT (if applicable)

30. Name of Owner: ITC Midwest, LLC
31. Name or Circuit Number of Line: Bertram - Prairie Creek Industrial
32. If Franchised Separately, Docket Number of Order Granting Franchise: E-20994

33. Maximum *Capable of Operating* Voltage: 169 kVAC Nominal Operating Voltage: 161 kVAC

Vertical Overhead Clearance Requirement* for the Phase Conductors

	Surface	*Basic Clearance*	+	*Voltage Adder*	+	*Additional Adders*	=	*Clearance*
34.	*Open Ground*	18.5 ft.	+	2.6 ft.	+	ft.	=	21.1 ft.
35.	*Roads*	18.5 ft.	+	2.6 ft.	+	ft.	=	21.1 ft.
36.	*(no RR crossings)*	ft.	+	ft.	+	ft.	=	ft.
37.	*(no water surfaces)*	ft.	+	ft.	+	ft.	=	ft.

* The Iowa Electrical Safety Code and the applicable edition of the NESC should both be referenced to determine the conditions at which the above clearances apply.

Phase Conductors:

38. Code Word: Rail Size: 954 kcmil Stranding: SD Type 7 Material: ACSR/SD

Typical Insulators

39.		*Post Type*	*Suspension Type*	
			Tan. / Ang. Single Piece Unit	*Strain N/A*
40.	*Manufacturer*	Hubbell Power Systems	Hubbell Power Systems	
41.	*Catalog number*	P250053S0020	S025053S2010	
42.	*Dry Flashover*	565 kV	560 kV	kV
43.	*Wet Flashover*	495 kV	525 kV	kV
44.	*Impulse Flashover, +*	855 kV	900 kV	kV
45.	*Impulse Flashover, –*	950 kV	900 kV	kV

46. Support Arm Type: N/A Material: _____ Dimensions: _____

DISTRIBUTION UNDERBUILD (if applicable)

47. Name of Owner: N/A

48. Nominal Voltage: _____

49. Number of Distribution Phase Conductors: _____
50. Neutral is _____ Multi-Grounding Frequency: _____

Vertical Overhead Clearance Requirement* for the Phase Conductors

	Surface	*Basic Clearance*	+	*Additional Adders*	=	*Clearance*
51.	*Open Ground*	ft.	+	ft.	=	ft.
52.	*Roads*	ft.	+	ft.	=	ft.
53.	*Railroads*	ft.	+	ft.	=	ft.
54.	*Water*	ft.	+	ft.	=	ft.

* The Iowa Electrical Safety Code and the applicable edition of the NESC should both be referenced to determine the conditions at which the above clearances apply.

Vertical Overhead Clearance Requirement* for the Neutral Conductor (if applicable)

	Surface	*Basic Clearance*	+	*Additional Adders*	=	*Clearance*
55.	*Open Ground*	ft.	+	ft.	=	ft.
56.	*Roads*	ft.	+	ft.	=	ft.
57.	*Railroads*	ft.	+	ft.	=	ft.
58.	*Water*	ft.	+	ft.	=	ft.

* The Iowa Electrical Safety Code and the applicable edition of the NESC should both be referenced to determine the conditions at which the above clearances apply.

59. Support Arm Type: _____ Material: _____ Dimensions: _____

TYPICAL STRUCTURE DRAWING

60. A drawing of a typical tangent structure, as described in the instructions, has been attached.

ADDITIONAL DRAWINGS REQUIRED FOR NEW CONSTRUCTION

61. Angle structures will not be used in this segment of line. A drawing of a typical angle structure, as described in the instructions, has not been attached.

62. Dead-end structures will not be used in this segment of line. A drawing of a typical dead-end structure, as described in the instructions, has not been attached.

63. There are no grain bins along this segment of line. Drawings showing the clearance envelope for each grain bin in relation to the proposed line are not required.